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मानक

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IS 11094 (1984): Strength performance requirements of service brake components of powered industrial trucks [TED 22: Transport Tractors and Trailers]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

STRENGTH PERFORMANCE REQUIREMENTS OF
SERVICE BRAKE COMPONENTS OF
POWERED INDUSTRIAL TRUCKS

1. Scope

1.1 This standard specifies the strength performance requirements of service brake components of powered industrial trucks where the service brake(s) systems are activated by a brake pedal, hand lever, hand-grip or steering tongue.

1.2 This standard applies to:

- a) high and low lift powered industrial trucks, powered electrically or by an internal combustion engine with seated or standing rider operator;
- b) trucks with elevatable operating position and lateral-stacking trucks; and
- c) pedestrain controlled trucks.

2. Component Strength

2.1 *Brake Pedal (Downward Movement)* — For trucks having a downward movement of the brake pedal to apply the service brake(s), the system shall be capable of withstanding a brake pedal force of 1 100 N without failure or permanent deformation of any component.

2.2 *Brake Pedal (Upward Movement)* — For trucks having an upward movement of the brake pedal (releasing the brake pedal) to apply the service brake(s), the system shall be capable of withstanding a force of 200 percent of the maximum possible setting of the spring which applies the brake(s), without failure or permanent deformation of any component.

Note — In case the maximum possible setting of the spring is not known, the brake pedal force shall be taken as 600 N.

2.3 *Hand Lever* — For trucks having a hand lever to apply the service brake(s), the system shall be capable of withstanding a force of 450 N applied at the gripping point on the lever, without failure or permanent deformation of any component.

2.4 *Hand-Grip* — For trucks having a hand-grip which is squeezed to apply the service brake(s), the system shall be capable of withstanding a force of 300 N applied to the hand-grip, without failure or permanent deformation of any component.

EXPLANATORY NOTE

The provisions of this Indian Standard are intended for design of service brake system components of industrial trucks. This standard is based on ISO 6500-1980 'Powered industrial trucks—Service brakes — Component strength performance requirements', issued by the International Organization for Standardization (ISO).

Adopted 20 December 1984

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